

Application No. 10/021,062
Amendment dated December 23, 2005
Reply to Office Action dated August 8, 2005

AMENDMENTS TO THE CLAIMS:

This listing of the claims will replace all prior versions, and listings, of claims in the application.

1. (Original) A communications node, ~~adapted~~ for use in a mobile wireless ad-hoc communications network, comprising:

a transceiver, ~~adapted to transmit and receive~~ for transmitting and receiving messages to and from other nodes in said network; and

a controller, ~~adapted to control~~ for controlling said transceiver to spread a transmission message for transmission to a destination node in said network based on information pertaining to an address of said destination node and information pertaining to at least one other factor.

2. (Currently Amended) The A communications node as claimed in claim 1, wherein:

said at least one other factor includes at least one of a network prefix, time of day, and provider information.

3. (Currently Amended) The A communications node as claimed in claim 1, wherein:

said network includes a multi-channel mobile wireless ad-hoc network; and

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said transceiver is ~~adapted to transmit and receive~~ for transmitting and receiving said messages to and from said other nodes in said multi-channel mobile wireless ad-hoc network.

4. (Currently Amended) The A communications node as claimed in claim 1, wherein:

said network includes at least one access point, ~~adapted to enable~~ for enabling said node to communicate with a network other than said network; and

said destination node includes said access point.

5. (Currently Amended) A mobile wireless ad-hoc communications network, comprising:

a plurality of nodes, ~~adapted to communicate~~ for communicating with each other; and

at least one access point, ~~adapted to enable~~ for enabling said nodes to communicate with another network;

wherein when a transmitting one of said nodes transmits a communications signal to another one of said nodes or a said access point, said transmitting node applies a spreading sequence to said communications signal to spread said communications signal, said spreading sequence being selected based on information pertaining to an address of said another one of said

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nodes or said access point to which said transmitting node is transmitting, and information pertaining to at least one other factor.

6. (Currently Amended) The A mobile wireless ad-hoc communications network as claimed in claim 5, wherein:

said at least one other factor includes at least one of a network prefix, time of day, and provider information.

7. (Currently Amended) The A mobile wireless ad-hoc communications network as claimed in claim 5, wherein:

said other network includes at least one of the a PSTN, another ad-hoc network and the Internet.

8. (Original) A method for controlling a communications node to communicate in a mobile wireless ad-hoc communications network, the method comprising:

enabling said communications node to transmit and receive messages to and from other nodes in said network; and

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controlling said communications node to spread a transmission message for transmission to a destination node in said network based on information pertaining to an address of said destination node and information pertaining to at least one other factor.

9. (Currently Amended) The A method as claimed in claim 8, wherein:

said at least one other factor includes at least one of a network prefix, time of day, and provider information.

10. (Currently Amended) The A method as claimed in claim 8, wherein:

said network includes a multi-channel mobile wireless ad-hoc network; and
said enabling enables said communications node to transmit and receive said messages to and from said other nodes in said multi-channel mobile wireless ad-hoc network.

11. (Currently Amended) The A method as claimed in claim 8, wherein:

said network includes at least one access point, ~~adapted to enable~~ for enabling said ~~communications~~ nodes to communicate with a network other than said network; and
said destination node includes said access point.

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12. (Currently Amended) A method for communicating in a mobile wireless ad-hoc communications network, comprising:

enabling a plurality of nodes in said network to communicate with each other;

establishing at least one access point, ~~adapted to provide~~ for providing said nodes with access to another network; and

when a transmitting one of said nodes transmits a communications signal to another one of said nodes or a said access point, applying a spreading sequence to said communications signal to spread said communications signal, said spreading sequence being selected based on information pertaining to an address of said another one of said nodes or said access point to which said transmitting node is transmitting, and information pertaining to at least one other factor.

13. (Currently Amended) The A method as claimed in claim 12, wherein:

said at least one other factor includes at least one of a network prefix, time of day, and provider information.

14. (Currently Amended) The A method as claimed in claim 12, wherein:

said other network includes at least one of ~~the~~ a PSTN, another ad-hoc network and the Internet.

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15. (Currently Amended) A computer readable medium of instructions for controlling a communications node to communicate in a mobile wireless ad-hoc communications network, the instructions comprising:

a first set of instructions, ~~adapted to enable~~ for controlling said communications node to transmit and receive messages to and from other nodes in said network; and

a second set of instructions, ~~adapted to control~~ for controlling said communications node to spread a transmission message for transmission to a destination node in said network based on information pertaining to an address of said destination node and information pertaining to at least one other factor.

16. (Currently Amended) The A computer readable medium of instructions as claimed in claim 15, wherein:

said at least one other factor includes at least one of a network prefix, time of day, and provider information.

17. (Currently Amended) The A computer readable medium of instructions as claimed in claim 15, wherein:

said network includes a multi-channel mobile wireless ad-hoc network; and

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said first set of instructions is further adapted to enable said communications node to transmit and receive said messages to and from said other nodes in said multi-channel mobile wireless ad-hoc network.

18. (Currently Amended) The A computer readable medium of instructions as claimed in claim 15, wherein:

said network includes at least one access point, ~~adapted to enable~~ for enabling said communications node to communicate with a network other than said network; and

said destination node includes said access point.